

**AMENDMENT**

**In the Claims:**

Please amend the Claims as follows:

1-28. (Canceled)

29. (Currently amended) A device for detecting, measuring or monitoring the activities or concentrations of at least one protein in a test sample, wherein the protein belongs to a plurality of proteins and the plurality of proteins have similar or overlapping properties towards a plurality of substrates, wherein the device comprises

a cartridge comprising adding means for adding the plurality of substrates to be contacted with a plurality of aliquots of the test sample;

measuring means for obtaining a detector for detecting reaction rates between the protein and each substrate;

software means for calculating the activity or the concentration of the protein using a set of equations which factor in a sensitivity coefficient for each substrate and for each protein and the reaction rates, wherein the sensitivity coefficient was determined from a sensitivity coefficient sample by factor

obtaining a plurality of inhibited dilutions of the sensitivity coefficient sample, wherein the plurality of inhibited dilutions comprise a plurality of concentrations of the protein which are partially to completely inhibited;

exposing each inhibited dilution of the plurality of inhibited dilutions to each substrate;

measuring the reaction rates between each uninhibited protein in each inhibited dilution and each substrate;

calculating the linear relationships between the reaction rates of each uninhibited protein and each concentration of the sensitivity coefficient sample at infinite inhibitor concentration; and

extracting each sensitivity coefficient of each substrate for each protein from the calculated linear relationships.

30. (Currently amended) The device of claim 29, further comprising at least one wherein the cartridge comprising further comprises a reagent, a buffer, a substrate, a standard, or a combination thereof for measuring the reaction rates.

31. (Withdrawn) A kit for detecting, measuring or monitoring the activities or concentrations of at least one protein in a test sample comprising the device of claim 29.

32. (Withdrawn, Previously presented) The kit of claim 31, wherein the device measures the reaction rates between acetylcholinesterase and butyrylcholinesterase and the substrates, and calculates the activities or concentrations acetylcholinesterase and butyrylcholinesterase.

33. (Withdrawn) The kit of claim 32, wherein the substrates for acetylcholinesterase and butyrylcholinesterase include acetylthiocholine, butyrylthiocholine, and propionylthiocholine.

34. (Withdrawn) The kit of claim 31, further comprising a chromogenic substrate.

35. (Previously presented) The device of claim 29 in the form of a biosensor capable of detecting an agent which affects the concentration or activity of at least one protein in a test sample, wherein the protein belongs to a plurality of proteins and the plurality of proteins have similar or overlapping properties towards a plurality of substrates, which comprises a sealed chamber containing a known mixture of the plurality of proteins.

36. (Withdrawn) A database of sensitivity coefficients for calculating the activities or the concentrations of  
at least one protein in a test sample, wherein the protein belongs to a plurality of proteins and the plurality of proteins have similar or overlapping properties towards a plurality of substrates, made by using the device of claim 29.

37-38. (Canceled)

39. (Previously presented) The device of claim 29, wherein the device is a handheld device.

40. (New) The device of claim 29, wherein the cartridge triggers device automation when inserted.